Journal of Neuro-Oncology **22**: 289–291, 1994.

Contents Vol. 22 (1994)

CONTENTS Vol. 22, No. 1, 1994

Laboratory Investigations

p53 Immunoreactivity in oligodendrogliomas
J. Pavelić, V. Hlavka, M. Poljak, N. Gale and K. Pavelić 1

Selective incorporation of ^{111}In-labeled PHOTOFRIN™ by glioma tissue *in vivo*
H.T. Whelan, L.H. Kras, K. Ozker, D. Bajic, M.H. Schmidt, Y. Liu, L.A. Trembath, F. Uzum, G.A. Meyer, A.D. Segura and B.D. Collier 7

Peripheral benzodiazepine receptors and glucose metabolism in human gliomas
C. Ferrarese, C. Pierpaoli, I. Linfante, R.H. Bobo, B. Guthrie, C. Kufta, M.O. Duhaney, J. Melisi and M.J. Fulham 15

Cell death due to ACNU-induced DNA fragmentation: Inhibition by cycloheximide
T. Kobayashi, T. Tominaga and T. Yoshimoto 23

TM-1 cells from an established human malignant glioma cell line produce PDGF, TGF-α and TGF-β which cooperatively play a stimulatory role for an autocrine growth promotion
M. Kurimoto, S. Endo, K. Arai, Y. Horie, K. Nogami and A. Takaku 33

Expression of estramustine-binding protein in ependymomas and in human and developing rat ependymal cells
A.T. Bergenheim, M. Hartman, J. Bergh, P.-Å. Ridderheim and R. Henriksson 45

Clinical Studies

Superiority of PCNU over AZQ in the treatment of primary brain tumors: Results of a prospective randomized trial (81–20) by the Brain Tumor Study Group
M.G. Malkin, S.B. Green, D.P. Byar, T.A. Strike, P.C. Burger, F.S. Vogel, D.A. Pistenmaa, M.S. Mahaley, Jr., J. Ransohoff, W.R. Shapiro, J. Mealey, Jr., J.T. Robertson, R.G. Selker and J.C. Van Gilder 55

Scale for assessing quality of life of children survivors of cranial posterior fossa tumors
J. Martinez-Climent, V.C. Sanchez, C.E. Menor, A.V. Miralles and J.F. Tortajada 67

Management of intracranial metastases of differentiated carcinoma of thyroid
B.M. Biswal, C.S. Bal, M.S. Sandhu, A.K. Padhy and G.K. Rath 77

Instructions for authors 83

CONTENTS Vol. 22, No. 2, 1994

Special issue

Hemostatic factors in brain tumors

Raymond E. Sawaya, Jasti S. Rao and B. Lee Ligon, guest editors

Introduction 85

Hemostatic changes in patients with brain tumors
L. Thoron and E. Arbit 87

Prognostic significance of proteolytic enzymes in human brain tumors
A.K. Bindal, M. Hammoud, W.M. Shi, S.Z. Wu and J.S. Rao 101

Prophylaxis of venous thromboembolism in brain tumor patients
M.G. Hamilton, R.D. Hull and G.F. Pineo 111

Treatment of thromboembolic complications in patients with brain tumors
L.K. Norris and S.A. Grossman 127

Activities, localizations, and roles of serine proteases and their inhibitors in human brain tumor progression
M. Yamamoto, R. Sawaya, S. Mohanam, V.H. Rao, J.M. Bruner, G.L. Nicolson, K. Ohshima and J.S. Rao 139

Proteolysis and invasiveness of brain tumors: Role of urokinase-type plasminogen activator receptor
S. Mohanam, R.E. Sawaya, M. Yamamoto, J.M. Bruner, G.L. Nicholson, and J.S. Rao 153

Modulation of fibrinolysis by ionizing radiation
J.S. Rao, A. Rayford, M. Yamamoto, K.K. Ang, P. Tofilon and R. Sawaya 161

Thromboembolic complications associated with brain tumors
R.E. Sawaya and B.L. Ligon 173

Plasminogen activator and hemorrhage in brain tumors
K. Oka, H. Tsuda, S. Sakamoto, Y. Go and M. Tomonaga 183

Instructions to authors 189

CONTENTS Vol. 22, No. 3, 1994

Laboratory Investigations

A rat glioma model, CNS-1, with invasive characteristics similar to those of human gliomas: A comparison to 9L gliosarcoma
C.A. Kruse, M.C. Molleston, E.P. Parks, P.M. Schiltz, B.K. Kleinschmidt-DeMasters and W.F. Hickey 191

Amplification and differential expression of members of the *erb*B-gene family in human glioblastoma
J. Schlegel, G. Stumm, K. Brändle, A. Merdes, G. Mechtersheimer, N.E. Hynes and M. Kiessling 201

In vivo measurement of tumor blood oxygenation by near-infrared spectroscopy: Immediate effects of pentobarbital overdose or carmustine treatment
R.G. Steen, K. Kitagishi and K. Morgan 209

Growth inhibition of subcutaneously transplanted human glioma by transfection-induced tumor necrosis factor-α and augmentation of the effect by λ-interferon
K. Harada, J. Yoshida, M. Mizuno, K. Sugita, K. Kurisu and T. Uozumi 221

Clinical Studies

Nasopharyngeal carcinoma with brain metastasis: A case report
C-C. Liaw, Y-S. Ho, NG Koon-Kwan, T-L. Chen and W-C. Tzann 227

Neurologic complications of Merkel cell carcinoma
S.M. Snodgrass, H. Landy, A.M. Markoe and L. Feun 231

Special Section

Brain tumor biochemistry and pathophysiology
Chairman: Prof. K.L. Leenders 235

Introduction
K.L. Leenders and U. Roelcke 237

Multidrug resistance in human cancer
M. Lehnert 239

Genetic alterations of brain tumors
K. von Ammon and U. Roelcke 245

Growth factor receptors and their ligands
U. Eppenberger and H. Mueller 249

Control of cell cycle
N.E.A. Crompton and N. Saydan 255

Blood flow and metabolic microenvironment of brain tumors
P. Vaupel 261

PET: Blood flow and oxygen consumption
K.L. Leenders 269

PET: Brain tumor biochemistry
U. Roelcke 275

Prediction of brain tumor therapy by PET
R.G. Blasberg 281

Summary
U. Roelcke and K. L. Leenders 287

Volume contents 289

Instructions for authors 293